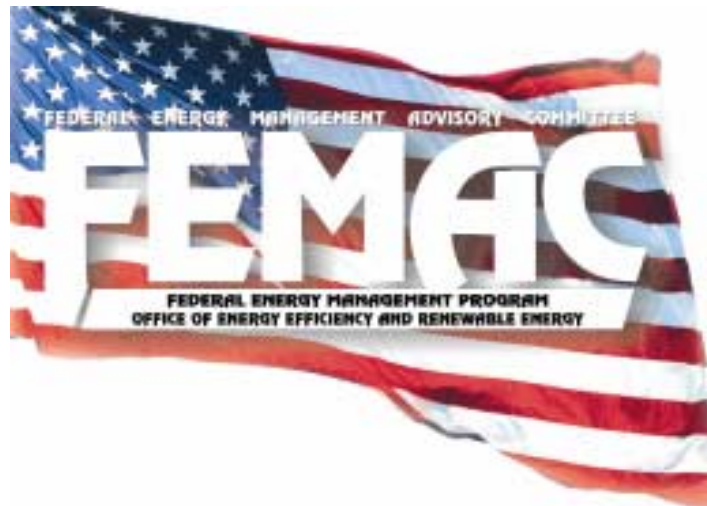
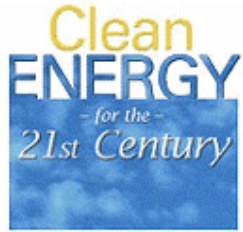


Federal Energy Management Programs Office of Energy Efficiency and Renewable Energy

Federal Energy Management Programs

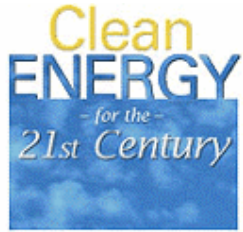


Beth Shearer, Director
October 23, 2000



Managing Energy in the Federal Sector

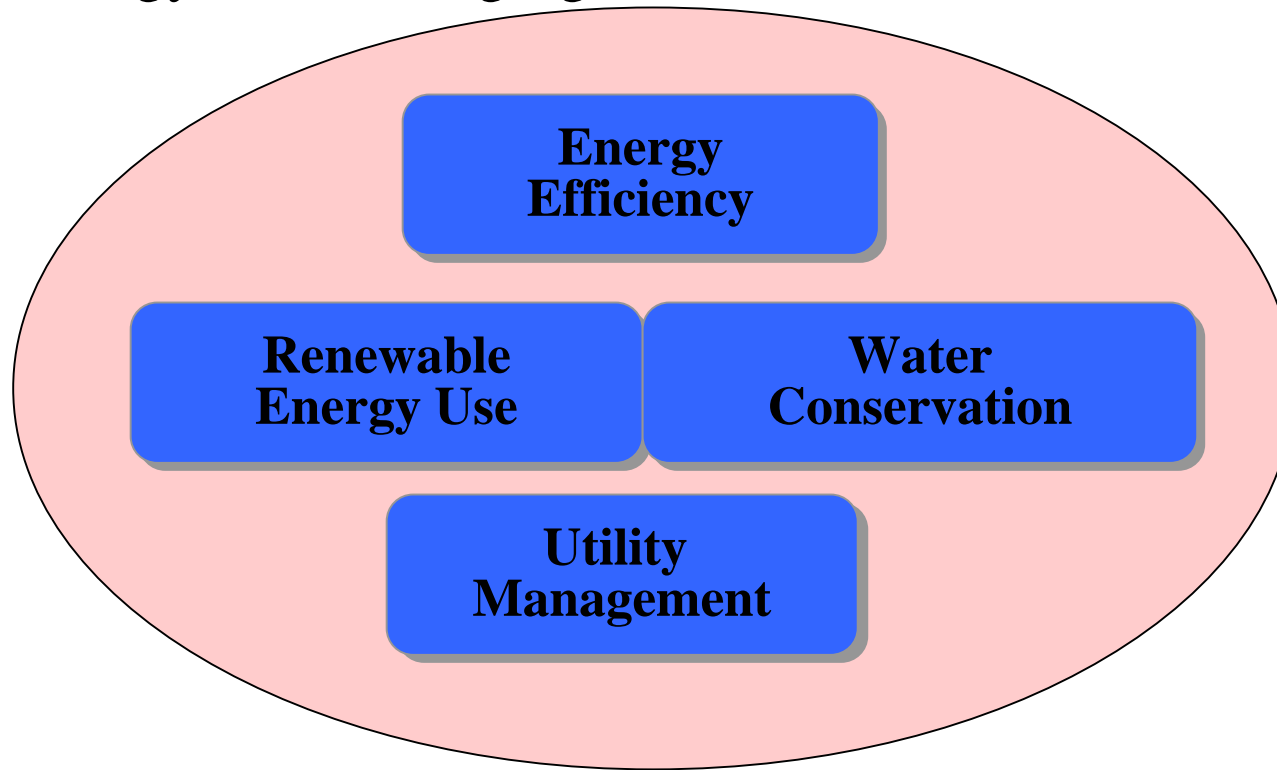
- Overview of Federal energy management
- Program opportunities
- Program activities

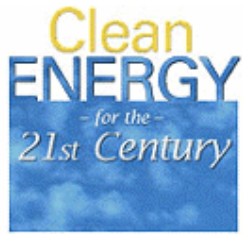


The **FEMP** Mission

FEDERAL ENERGY MANAGEMENT PROGRAM

FEMP works to reduce the cost of Government by advancing energy efficiency and water conservation, promoting the use of renewable energy, and managing utilities at Federal sites.

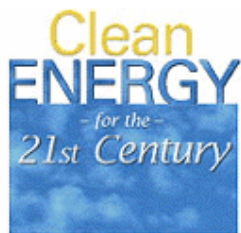




Legislative Mandates

- Energy Policy and Conservation Act (1975)
- DOE Organization Act (1978)
- National Energy Conservation Policy Act (1978)
- Federal Energy Management Improvement Act (1988)
- Executive Order 12759 (1991)
- Energy Policy Act (1992)
- Executive Order 12902 (1994)
- Executive Order 13123 (1999)

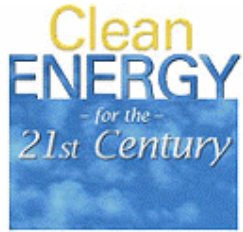




Federal End-Use Sectors

- Buildings & Facilities
- Energy Intensive Operations
- Vehicles & Equipment

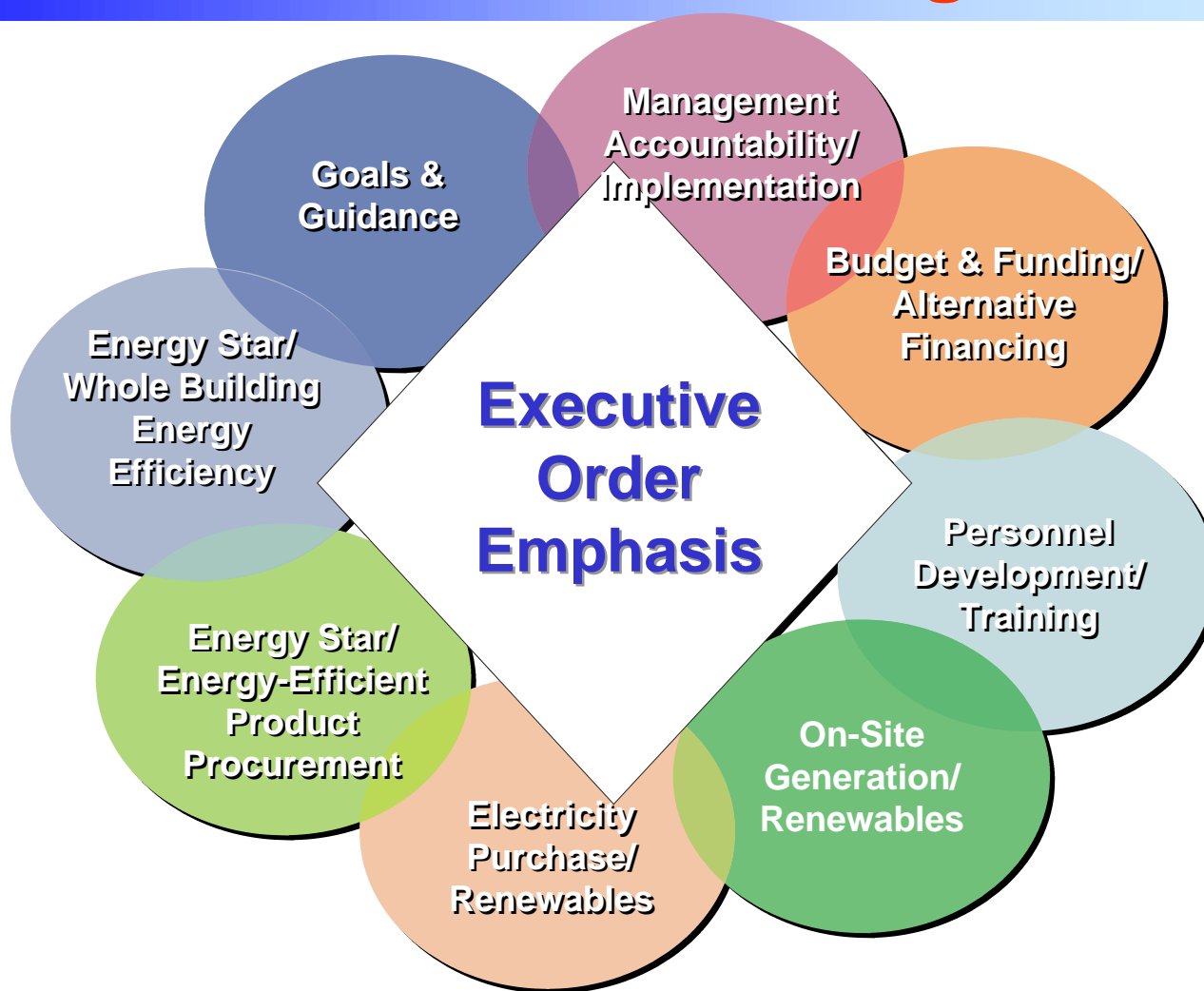


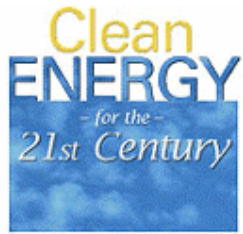


Is Federal Energy Management Important?

- Significantly reduces \$3.6 billion annual bill for building energy use
- \$750 million annual energy cost savings
 - \$10+ billion net savings over life of projects
- Reduces greenhouse gas emissions
 - Improves air quality
- Presidential priority -- Federal government to lead the nation

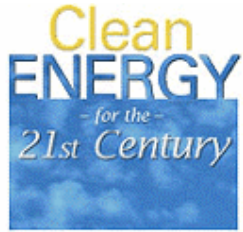
Energy Management in Federal Buildings





“Greening the Government”

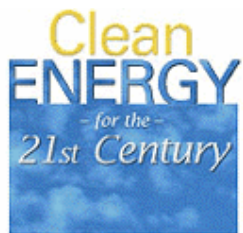
- Improve building efficiency
 - 2005=30% 2010= 35%
- Expand renewable energy use
- Enhance water conservation
- Improve industrial/laboratory efficiency
 - 2005=20% 2010= 25%



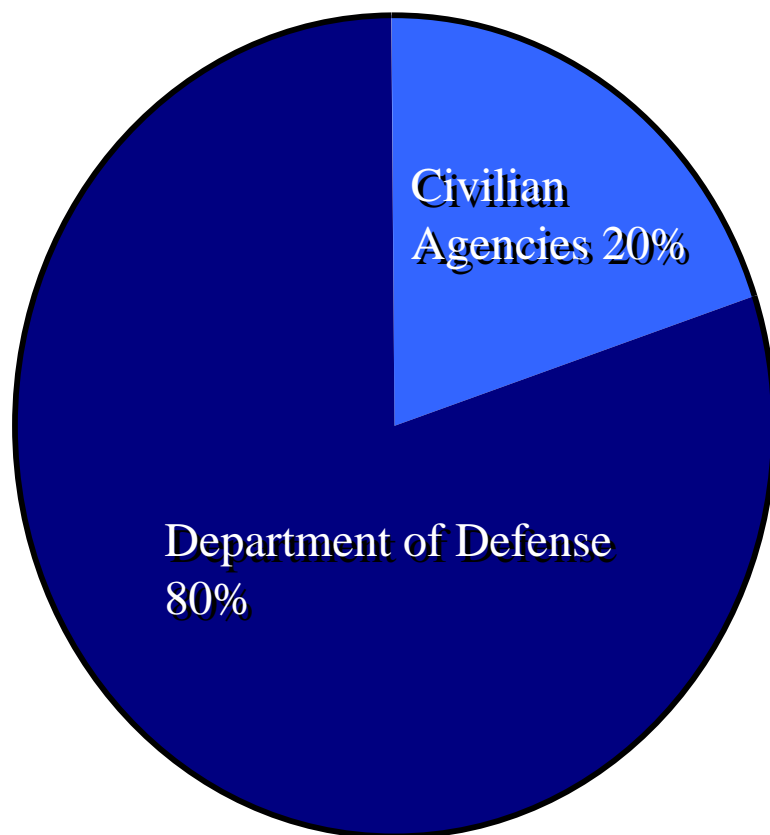
Federal Government as Consumer

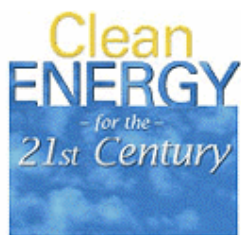


- \$200 billion annually on products and services
- \$8 billion on Federal energy bill
- 500,000 buildings
- Consumes 2% of nation's electricity



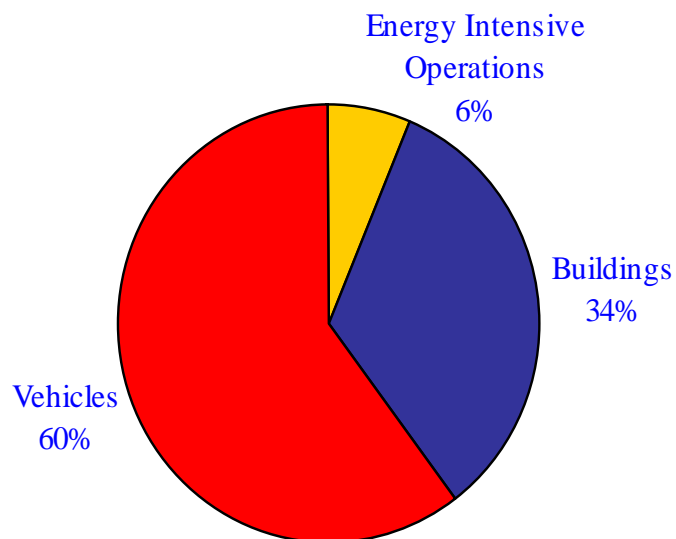
Defense & Civilian Energy Use



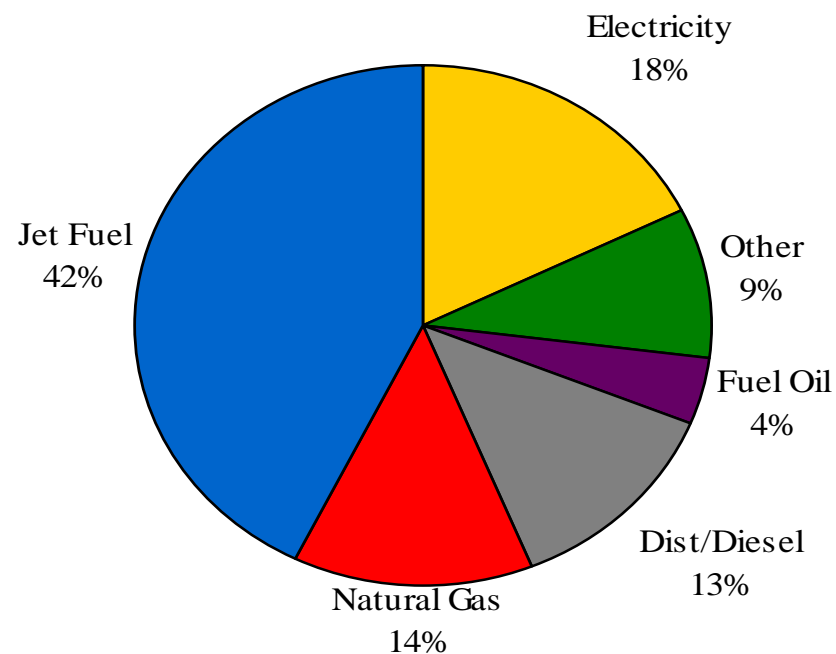


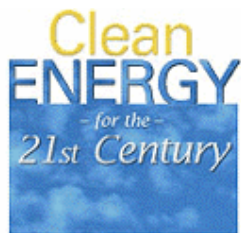
Federal Usage by Sector & Type of Energy

1998 Federal Energy Consumption by Sector



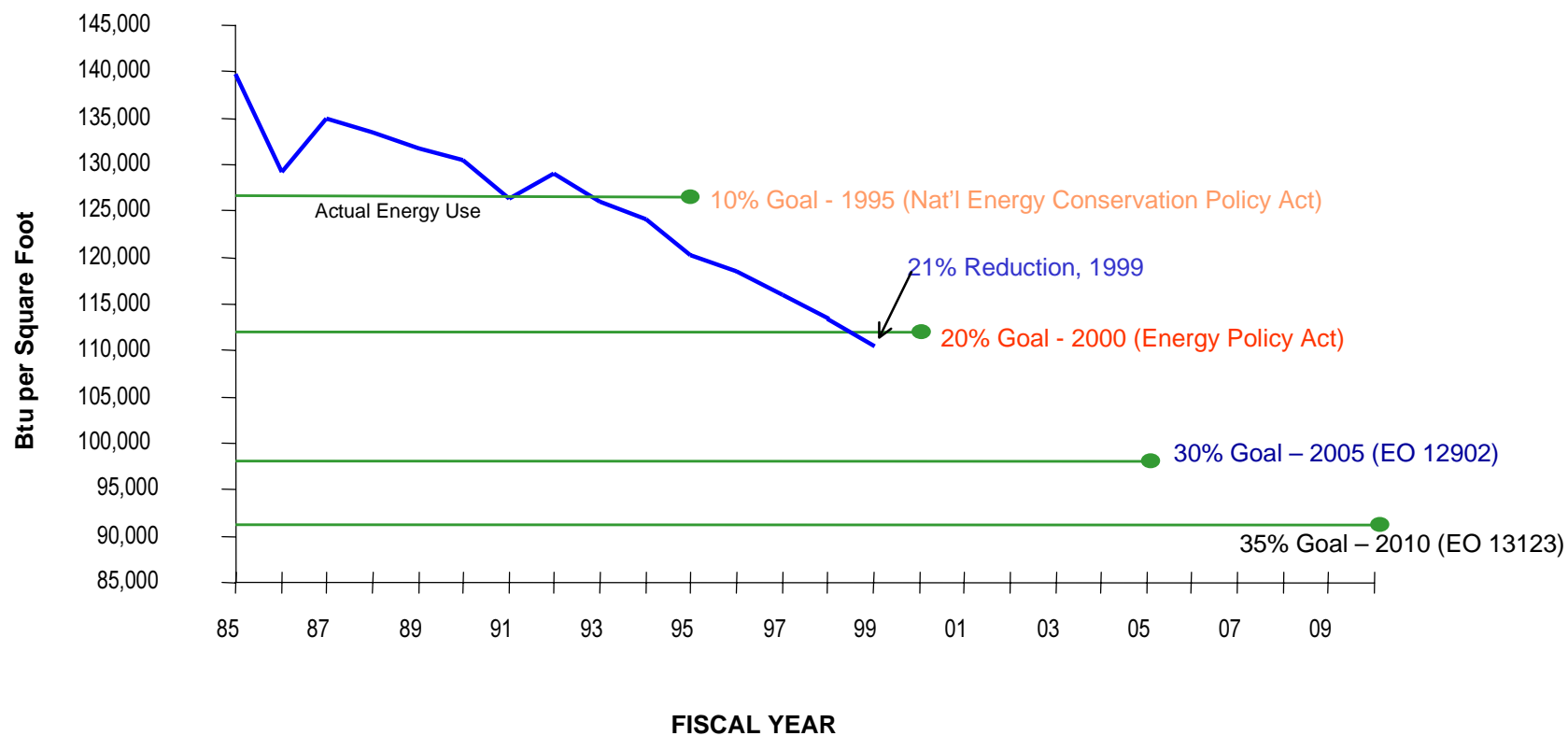
1998 Federal Energy Consumption by Type

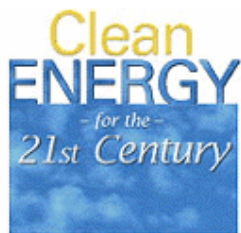




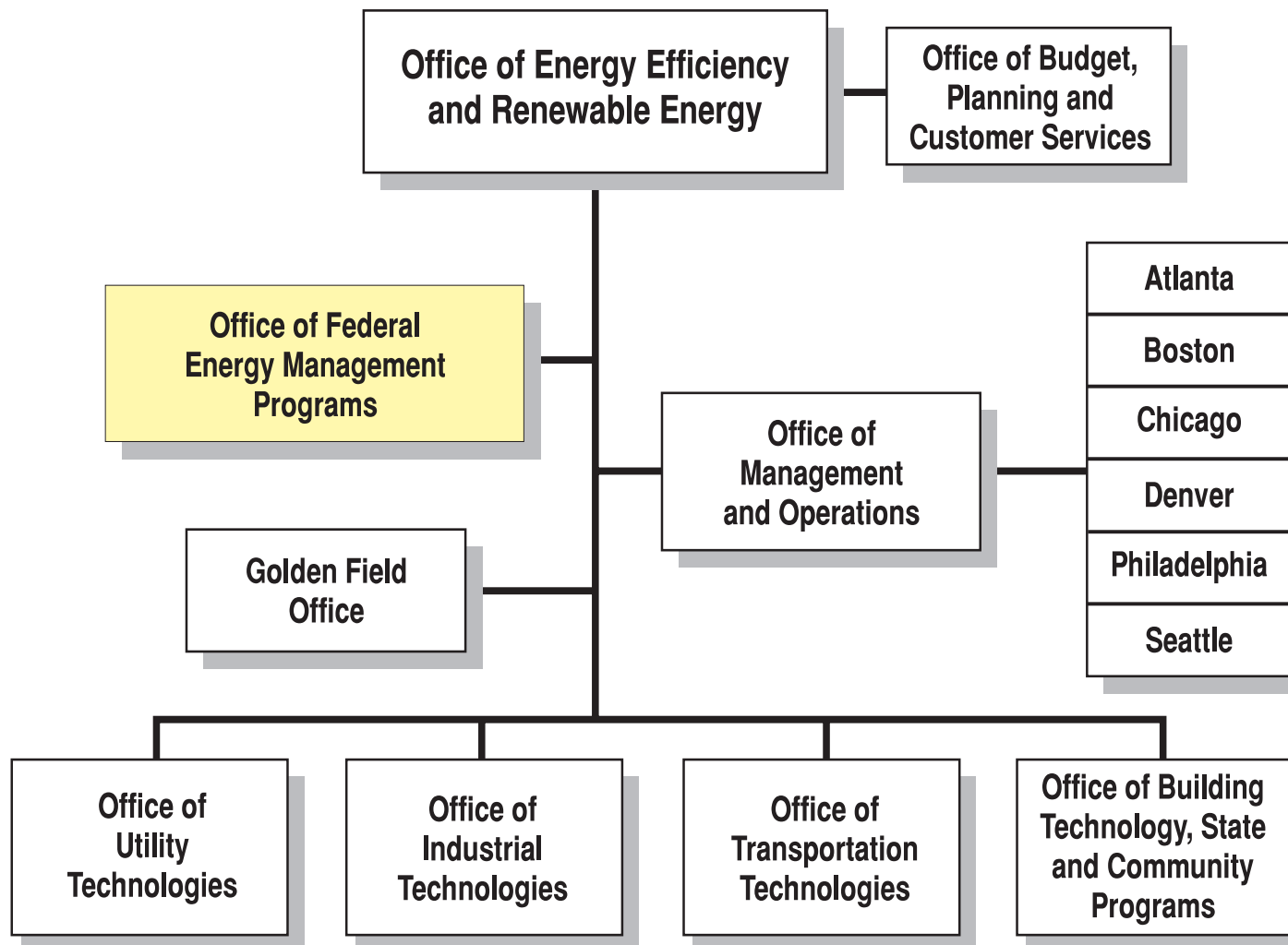
Federal Energy Outlook

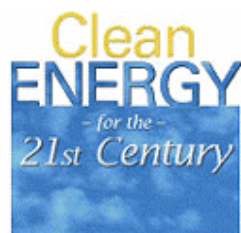
Energy Reduction Goals for Standard Buildings



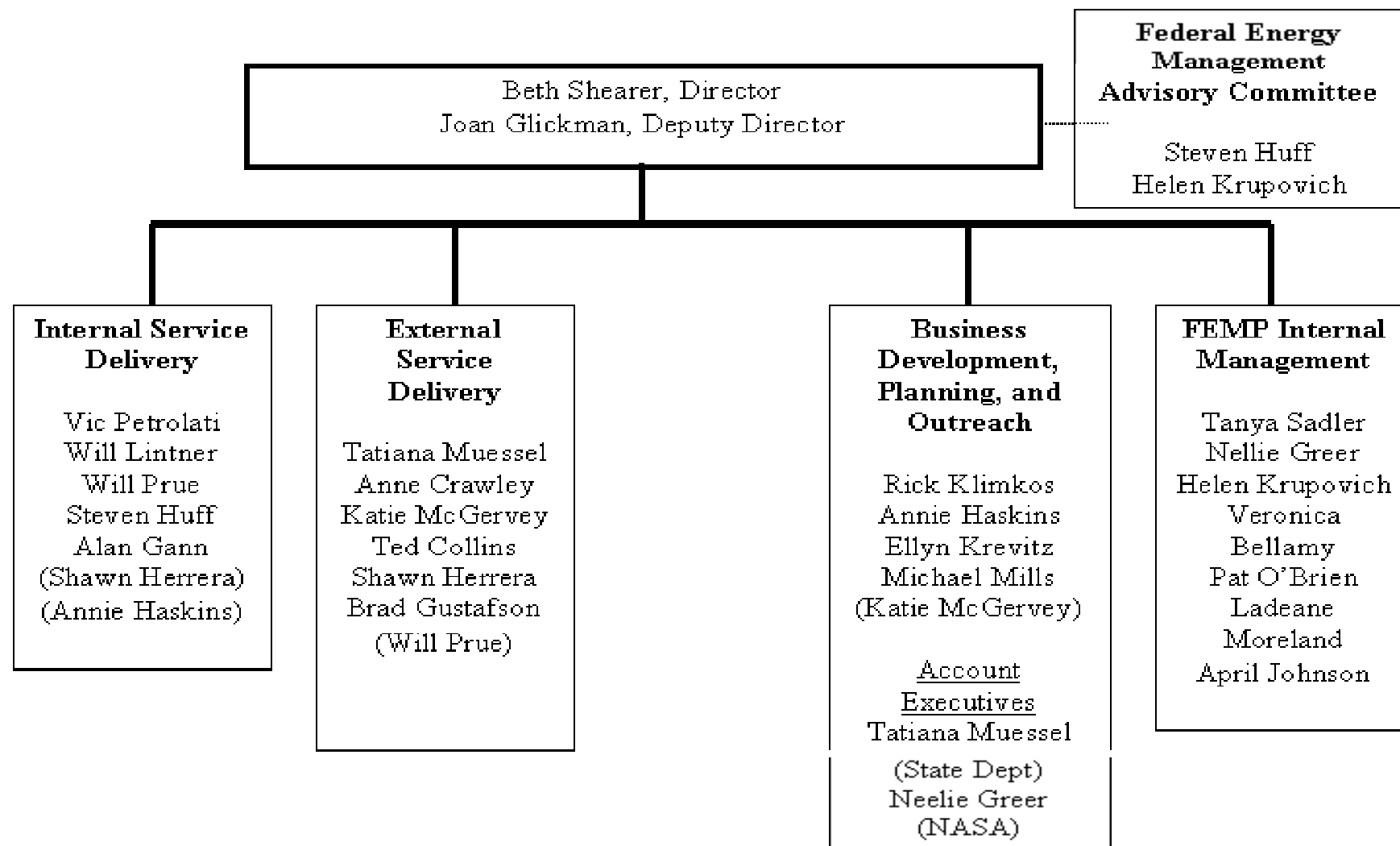


Office of Energy Efficiency and Renewable Energy

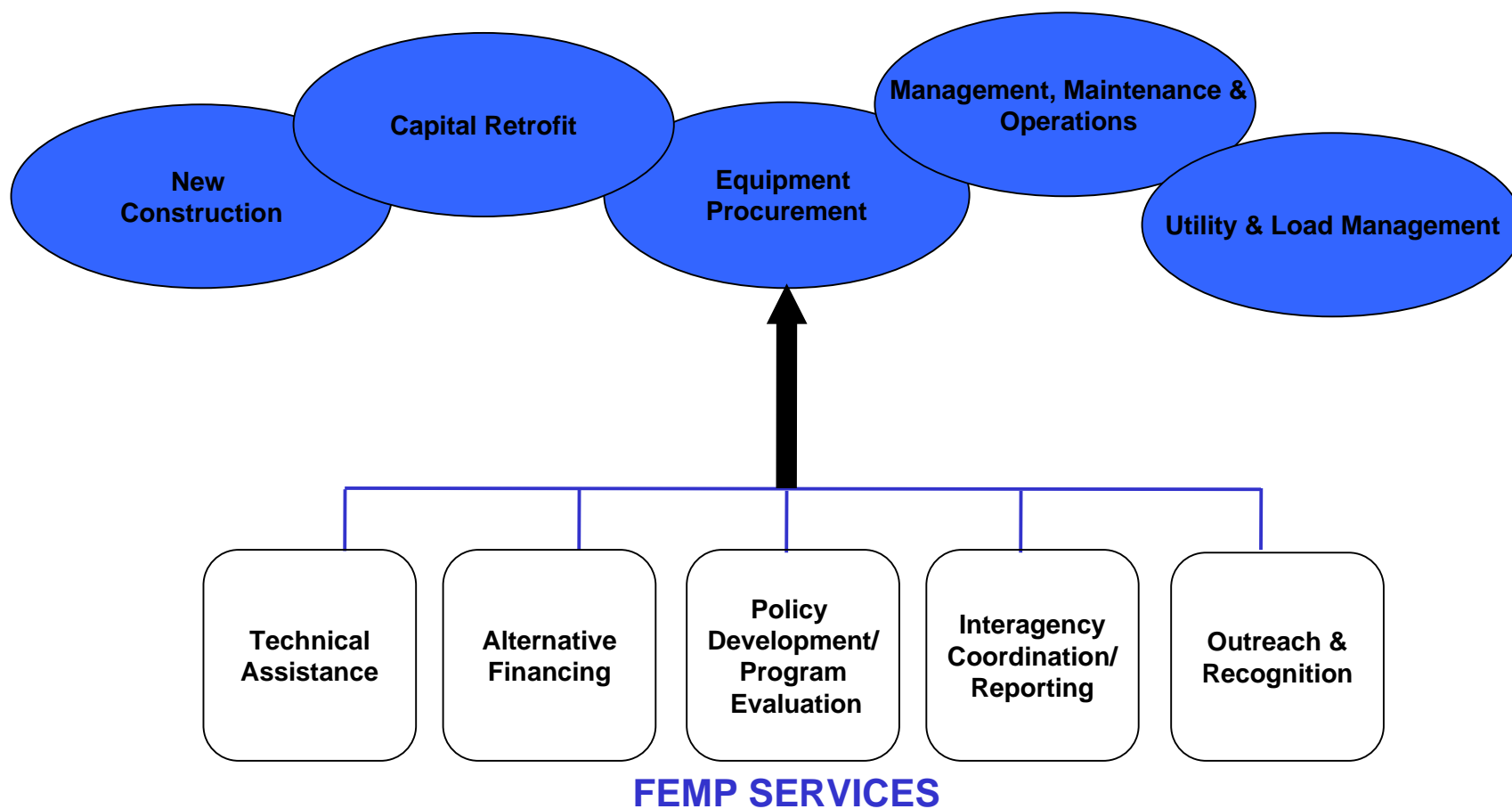


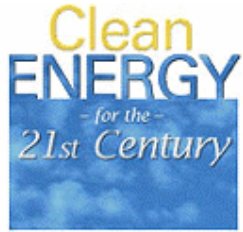


Office of Federal Energy Management Programs



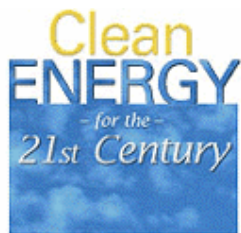
Target Areas





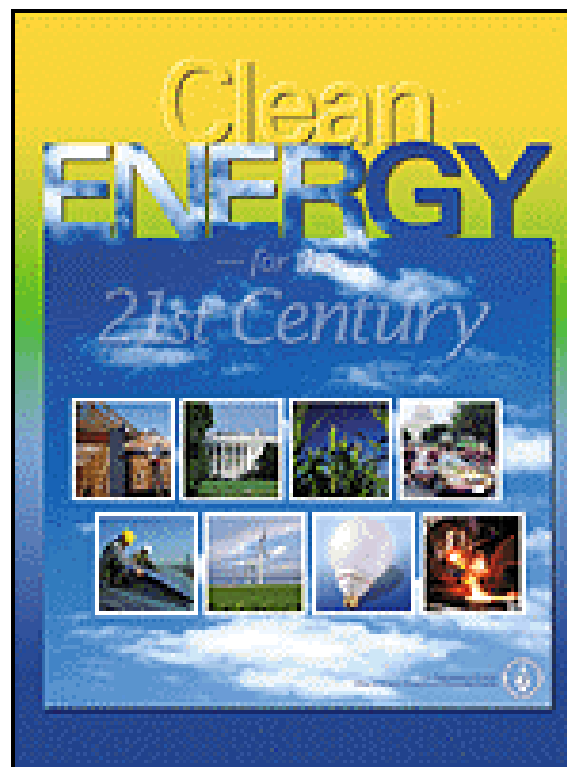
Today & Tomorrow

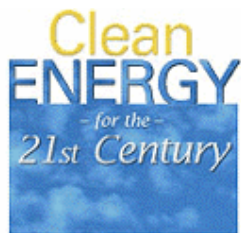
- Current building inventory includes many older, inefficient buildings
- Opportunities exist for adopting
 - new and emerging technologies
 - improved design practices



Major Program Activities

- Technical Assistance
- Project Financing
- Federal Coordinating
- Data Collection and Reporting
- Communication and Outreach

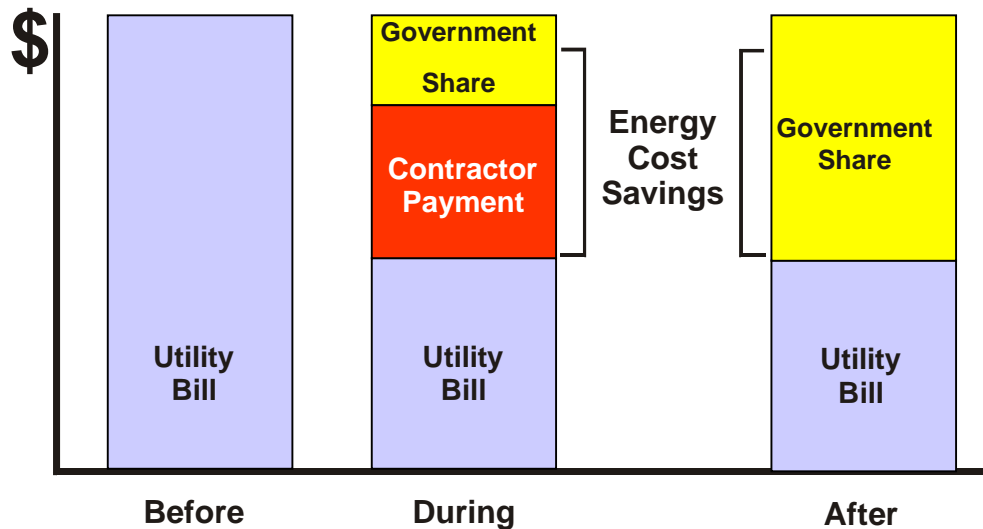




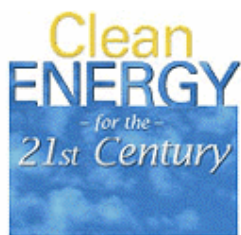
Technical Assistance

- **Super Energy Savings Performance Contracts**
 - expedited, pre-competed contracts
 - general as well as technology-specific contracts
- **GSA Area-Wide Utility Contracts**
 - another tool for efficiency and renewable projects
- **FEMP Assistance**
 - “One-stop shop” for agencies
- **ENERGYSTAR & Energy Efficient Procurement**
 - GSA and Defense Logistics Agency schedules highlight these products
- **SAVEnergy Audits**
- **Renewable Technologies**
 - Design assistance
 - Training
 - Limited grants
- **Training**
- **Design Assistance for New Construction**

Project Financing



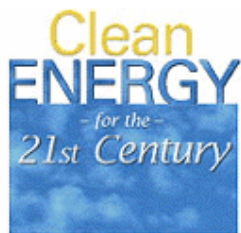
- *Energy Savings Performance Contracts (ESPC)*
- *Utility Energy Savings Contracts (UESC)*
- Only need technical and contracting support costs
- Future savings pay back investment



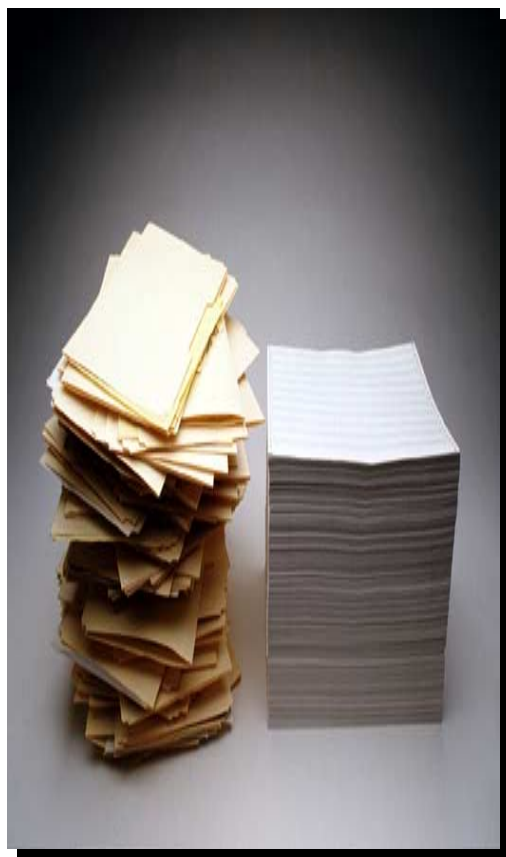
Federal Coordination

- Federal Interagency Energy Policy Committee (“656” Committee)
 - Policy guidance and agency review of Federal energy management programs
- Interagency Energy Management Task Force
 - Technical advisor for “656” Committee
 - Analyzes, recommends legislation and implementation of coordinated Federal activities
 - Establishes working groups

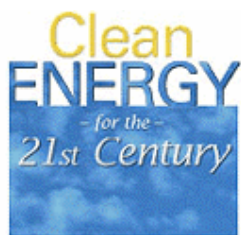




Data Collection & Reporting



- Reporting guidance
- Database of Federal energy consumption, cost
- Annual report to Congress Federal energy management
 - Consolidated agency activities
 - Progress toward mandated goals



Communication & Outreach

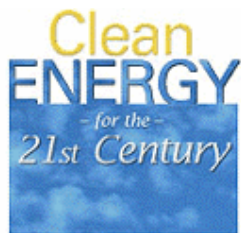
■ Educating the Federal energy community

- *Femp Focus*, publications, Annual Report to Congress
- Software tools, videos
- Program overviews
- Federal procurement challenge
- Information on energy efficiency products
- Energy awareness toolkits
- Project case studies
- Training, workshops



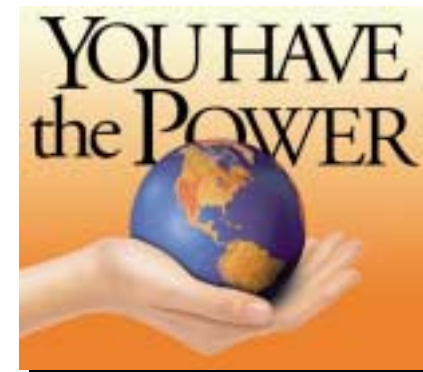
■ Motivating managers to implement cost-effective projects

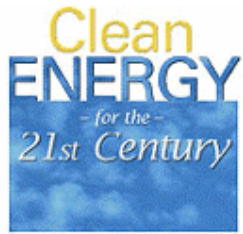
- *You Have the Power* Campaign
- TeleFEMP broadcasts
- ESPC information, legislation, case studies, and action kit.
- Federal Energy and Water Management Awards, brochures
- Renewable energy programs, fact sheets
- FEMP Web Site:
www.eren.doe.gov/femp



Communication & Outreach

- Educating the Federal energy community
- Motivating managers to implement cost-effective projects
 - Annual report to Congress
 - “You Have the Power” Campaign
 - *FEMP Focus*, FEMP Awards
 - Annual Energy Conference





Education & Training

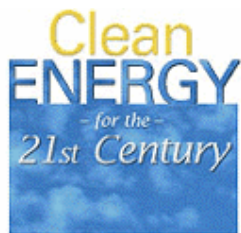
August 21-23, 2000

Pittsburgh, PA

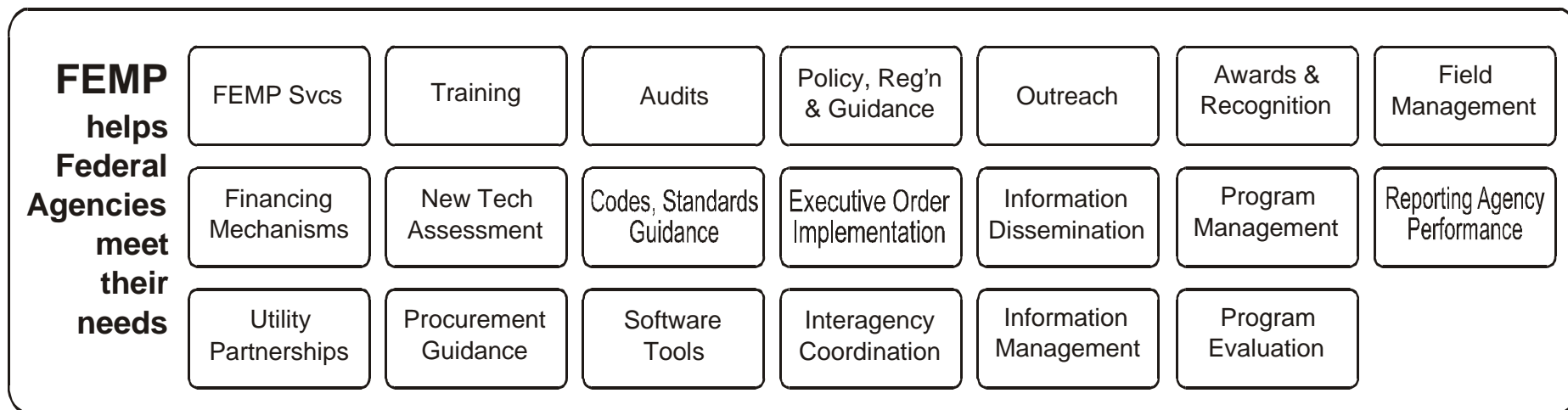
Conference Tracks

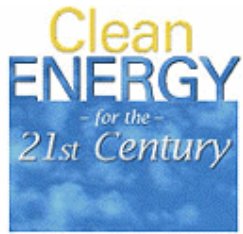


- **Facility Operations and Energy Markets**
- **Green Building**
- **Managing Energy Information**
- **Project and Program Integration**
- **Project Financing**
- **Technology**
- **Whole Building Design**



Support for Agencies





Working Together

Energy and
Cost Savings



Economic
Development

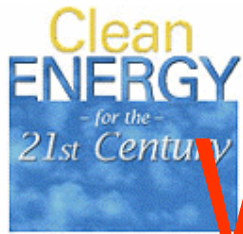


Improved Work
Environments



Environmental
Benefits





Working Together

FEMP
FEDERAL ENERGY MANAGEMENT PROGRAM

